

## CLAIMS

What is claimed is:

1. A non-stalled requesting system comprising:

a first storage device for storing a plurality of texels;

a second storage device coupled to the first storage device for storing a first texel of the plurality of texels;

a third storage device for storing an association between a first identifier signal and the first texel;

a first logic device coupled to the second storage device and the third storage device for responding to a second identifier signal matching the first identifier signal by triggering the transmission of the first texel from the second storage device and for responding to the second signal not matching the first identifier signal by retrieving a second texel of the plurality of texels from the first storage device; the second texel having an association with the second identifier signal.

2. The system of claim 1 further comprising:

a second logic device coupled to the first logic device for synchronizing the transmission of the first texel from the second storage device.

3. The system of claim 1 further comprising:

a third logic device coupled to the first logic device for synchronizing the storing of the second texel in the second storage device.

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1 4. The system of claim 2 further comprising:  
 2 a fourth storage device coupled to second logic device for storing an association between  
 3 the second storage device and a plurality of logic states.

1 5. The system of claim 1 further comprising:  
 2 a first counter coupled to the first logic device for responding to the second identifier  
 3 signal matching the first identifier signal by changing a first value to a second value.

1 6. The system of claim 2 further comprising:  
 2 a second counter coupled to the second logic device for responding to the transmission of  
 3 the first texel by the second storage device by changing a third value to a fourth value.

1 7. The system of claim 5 further comprising:  
 2 a second counter for responding to the transmission of the first texel by the second  
 3 storage device by changing a third value to a fourth value; and  
 4 a third logic device coupled to the first logic device and to the second counter for  
 5 responding to the fourth value having a value at least as large as the second value by triggering  
 6 the storing of the second texel in the second storage device.

1 8. The system of claim 1 further comprising:  
 2 a second logic device coupled to the second storage device for controlling the  
 3 transmission of the first texel from the second storage device;  
 4 a third logic device coupled to the second storage device for triggering the storing of the  
 5 second texel in the second storage device; and

6 a third storage device coupled to the second logic device and the third logic device for  
7 synchronizing the transmission of the first texel and the storing of the second texel.

1 9. The system of claim 3 further comprising:

2 a first buffer coupled to the first storage device, the second storage device and the third  
3 logic device for delaying the storing of the second texel in the second storage module until the  
4 third logic device triggers the storing of the second texel in the second storage device.

1 10. The system of claim 9 wherein the first buffer is a first in, first out queue.

1 11. A method for requesting texels, the method comprising the steps of:

2 storing the plurality of texels in a first storage device;  
3 storing a first texel of the plurality of texels in a second storage device;  
4 storing an association between a first identifier signal and the first texel;  
5 responding to a second identifier signal matching the first identifier signal by triggering  
6 the transmission of the first texel from the second storage device; and  
7 responding to the second identifier signal not matching the first identifier signal by  
8 retrieving a second texel of the plurality of texels, having an association with the second  
9 identifier signal, from the first storage device.

1 12. The method of claim 1 comprising the additional step of:

2 synchronizing the transmission of the first texel from the second storage device.

1 13. The method of claim 1 comprising the additional step of:

2 synchronizing the storing of the second texel in the second storage device.

1 14. The method of claim 12 comprising the additional step of:  
2 storing an association between the second storage device and a plurality of logic states.

1 15. The method of claim 11 comprising the additional step of:  
2 responding to the second identifier signal matching the first identifier signal by changing  
3 a first value to a second value.

1 16. The method of claim 12 comprising the additional step of:  
2 responding to the transmission of the first texel by the second storage device by changing  
3 a third value to a fourth value.

1 17. The method of claim 15 comprising the additional step of:  
2 responding to the transmission of the first texel by the second storage device by changing  
3 a third value to a fourth value; and  
4 responding to the fourth value having a value at least as large as the second value by  
5 triggering the storing of the second texel in the second storage device.

1 18. The method of claim 11 comprising the additional step of:  
2 controlling the transmission of the first texel from the second storage device;  
3 triggering the storing of the second texel in the second storage device; and  
4 synchronizing the transmission of the first texel and the storing of the second texel.

1 19. The method of claim 13 comprising the additional step of:  
2 delaying the storing of the second texel in the second storage module until the third logic  
3 device triggers the storing of the second texel in the second storage device.

1 20. The method of claim 19 wherein the delay the storing of the second texel comprises the  
2 additional step of:  
3 transmitting the second texel, which was received prior to a third texel, before  
4 transmitting the third texel.

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